

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Reissue Application of:**

Detering et al

**Serial No.:** Not Yet Assigned

**Filed:**

**Reissue of Patent No.:** RE 37,853

**Issue Date:** September 24, 2002

**For:** FAST QUENCH REACTOR AND  
METHOD

**Confirmation No.:** Unknown

**Examiner:** Unknown

**Group Art Unit:** Unknown

**Attorney Docket No.:** EGG-PI-413 RE/RE

**NOTICE OF EXPRESS MAILING**

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Date of Deposit with USPS: July 31, 2003  
Person making Deposit: Mandy Tandon

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in

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37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
3,051,639	08/1962	Anderson
3,123,464	03/1964	Casey et al.
3,211,548	10/1965	Scheller et al.
3,408,164	10/1968	Johnson
3,429,691	02/1969	McLaughlin
3,630,718	12/1971	Newenschwander
3,738,824	06/1973	Davis et al.
3,840,750	10/1974	Davis et al.
3,914,573	10/1975	Muehlberger
3,954,954	05/1976	Davis et al.
3,992,193	11/1976	Fey et al.
4,022,872	05/1977	Carson et al.
4,080,194	03/1978	Fey
4,107,445	08/1978	Wolf et al.
4,145,403	03/1979	Fey et al.
4,146,389	03/1979	Karlovitz
4,164,553	08/1979	Perugini et al.
4,335,080	06/1982	Davis et al.
4,347,060	08/1982	Blizzard et al.
4,356,029	10/1982	Down et al.
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4,610,718	09/1986	Araya et al.

**Attorney Docket No.: EGG-PI-413 RE/RE**

4,612,045	09/1986	Shintaku
4,731,111	03/1988	Kopatz et al.
4,762,756	08/1988	Bergmann et al.
4,772,315	09/1988	Johnson et al.
4,783,216	11/1988	Kemp et al.
4,801,435	01/1989	Tylko
4,851,262	07/1989	McFeaters
4,875,810	10/1989	Chiba et al.
4,891,066	01/1990	Shimotori et al.
4,909,914	03/1990	Chiba et al.
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5,257,500	11/1993	Kattalaicheri et al.
5,294,242	03/1994	Zurecki et al.
5,749,937	05/1998	Detering et al.
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Foreign Patent Documents

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
JP 30-7408	10/15/1955	Ishizuka
DE/DD 1 142 159	01/10/1963	Harnisch et al.
JP 38-6854	05/23/1963	Waku
SU 322960	01/05/1975	Mil'ko et al.

**Attorney Docket No.: EGG-PI-413 RE/RE**

FR 2 341 389	09/16/1977	Perugini et al.
SU 223055	06/15/1982	Chesnokov et al.
FR 2 603 209	03/04/1988	Serole
DD 269 157 A1	06/21/1989	Hoffmann et al.
GB 2 217 699 A	11/01/1989	Egerton et al.
DD 293 704	09/05/1991	Dummersdorf et al.
GB 2 279 009 A	12/21/1994	Briquet

Other Documents

McFeaters, J., et al., Application of Nonequilibrium Gas-Dynamic Techniques to the Plasma Synthesis of Ceramic Powders, VCH Publications, 1990, Chapter 46, pp. 431-446.

Krasnov et al., Low Temperature Plasma in Metallurgy

Zvetkov, J.V., et al., Low Temperature Plasma Used in Recovery Processes, Section 6, Academy of Science of the USSR, Institute of Metallurgy Named After A.A. Baikov

Down, M.G., *Titanium Production by a Plasma Process*, Final Technical Report, Materials Laboratory, Air Force Wright Aeronautical Laboratories (#AD A 121892), May 1982, pp. 1-8.

*"The INEL Plasma Research Program,"* Idaho National Engineering Laboratory (BP422E-R0592-1M-T), May 1992.

Applicants offer to supply any explanation or discussion of the documents that the Examiner feels is necessary or desirable and which is requested.

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. § 1.17(p) is required.

**Attorney Docket No.: EGG-PI-413 RE/RE**

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Stephen R. Christian". The signature is fluid and cursive, with a horizontal line extending from the end.

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Date: 31 JULY 2003

Enclosures: Form PTO/SB/08  
Cited Documents

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

4

**Complete if Known**

Application Number

Filing Date

First Named Inventor

Detering et al

Group Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

EGG-PI-413 RE

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		3,051,639	08/1962	Anderson	
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		3,630,718	12/1971	Newenschwander	
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		3,914,573	10/1975	Muehlberger	
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		4,164,553	08/1979	Perugini et al.	
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**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		JP 30-7408	10/15/1955	Ishizuka		
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO  <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin-top: 20px;"><i>(use as many sheets as necessary)</i></p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: right; padding: 5px;"><i>Complete if Known</i></th> </tr> <tr> <td style="width: 30%; padding: 5px;">Application Number</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">Filing Date</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;">First Named Inventor</td> <td style="padding: 5px;">Detering et al</td> </tr> <tr> <td style="padding: 5px;">Group Art Unit</td> <td style="padding: 5px;">Unknown</td> </tr> <tr> <td style="padding: 5px;">Examiner Name</td> <td style="padding: 5px;">Unknown</td> </tr> <tr> <td style="padding: 5px;">Attorney Docket Number</td> <td style="padding: 5px;">EGG-PI-413 RE</td> </tr> </table>		<i>Complete if Known</i>		Application Number		Filing Date		First Named Inventor	Detering et al	Group Art Unit	Unknown	Examiner Name	Unknown	Attorney Docket Number	EGG-PI-413 RE
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Sheet	2	of	4														

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		4,911,805	03/1990	Kenji et al.	
		5,017,754	05/1991	Drouet et al.	
		5,028,417	07/1991	Gulguhji et al.	

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Examiner Signature		Date Considered	
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First Named Inventor

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Group Art Unit

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EGG-PL 413 RE

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		McFeaters, J., et al., Application of Nonequilibrium Gas-Dynamic Techniques to the Plasma Synthesis of Ceramic Powders, VCH Publications, 1990, Chapter 46, pp. 431-446.	
		Krasnov et al., Low Temperature Plasma in Metallurgy	
		Zvetkov, J.V., et al., Low Temperature Plasma Used in Recovery Processes, Section 6, Academy of Science of the USSR, Institute of Metallurgy Named After A.A. Baikov	
		Down, M.G., <i>Titanium Production by a Plasma Process</i> , Final Technical Report, Materials Laboratory, Air Force Wright Aeronautical Laboratories (#AD A 121892), May 1982, pp. 1-8.	
		"The INEL Plasma Research Program," Idaho National Engineering Laboratory (BP422E-R0592-1M-T), May 1992.	

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